

Applicant : Carl S. Marshall et al.  
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Attorney's Docket No.: 10559-479001  
Intel Docket: P11158

### REMARKS

This amendment replaces the one filed on October 27, 2003. The amendment filed on October 27, 2003 was mailed due to a clerical error. It was not signed by the attorney of record and therefore should not be entered.

Claims 1 to 7, 9 to 17, 19 to 27, 29 and 30 are pending in this application of which claims 1, 11 and 21 are the independent claims. Favorable reconsideration and further examination are respectfully requested.

Claims 1 to 30 are rejected under 35 U.S.C. § 103 over Kobe-shi (EP 0948978A2) in view of Junkins et al. (U.S. Patent No. 6,198,486). As shown above, Applicants have amended the claims to define the invention more clearly. In view of these amendments, withdrawal of the art rejection is respectfully requested.

Claim 1, as amended, is directed to a method of generating a shadow in a virtual three-dimensional (3D) space. The method includes adjusting a resolution of a 3D model and projecting elements of the 3D model onto a surface in the virtual 3D space. The method also includes rendering a shadow having the adjusted resolution of the 3D model on the surface using the projected elements and rendering the 3D model at a resolution that is higher than the adjusted resolution.

The applied art is not understood to disclose or suggest the foregoing features of claim 1. In particular, neither Kobe-shi nor Junkins, taken separately or in combination, disclose or suggest "rendering a shadow having the adjusted resolution of the 3D model on the surface using

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the projected elements and rendering the 3D model at a resolution that is higher than the adjusted resolution." (1)

Specifically, Kobe-shi does not render shadows that have a reduced resolution. Kobe-shi (2)  
describes rendering shadows that have the same resolution as the original model. Therefore,  
Kobe-shi does not disclose or suggest rendering a shadow that has a lower resolution than the 3D  
model.

Junkins describes reducing the resolution of a mesh, e.g., by removing polygons from the  
mesh. Junkins, however, does not disclose or suggest rendering two versions of the same mesh  
(e.g., a shadow and an original) at different resolutions. Therefore, if Junkins were combined  
with Kobe-shi, in the manner suggested in the Office Action, the resulting hypothetical  
combination, at best, would render both an original mesh and a shadow at a reduced resolution.  
This is different from the invention of claim 1, which renders a shadow at an adjusted resolution  
and a 3D model at a resolution that is higher than the shadow resolution.

For at least the foregoing reasons, claim 1 is believed to be allowable. Claims 11 and 21  
roughly correspond to claim 1. Accordingly, claims 11 and 21 are believed to be allowable for at  
least the same reasons noted above with respect to claim 1.

In view of the foregoing amendments and remarks, Applicants submit that the entire  
application is now in condition for allowance. Such action is respectfully requested at the  
Examiner's earliest convenience.

All correspondence should be directed to the below address. Applicants' attorney can be  
reached by telephone at the number shown below.


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No fee is believed to be due for Amendment; however, if any fees are due, please apply such fees to Deposit Account No. 06-1050 referencing Attorney Docket 10559-479001.

Respectfully submitted,

Date: October 28, 2003

  
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